PREOBRAZHENSKAYA, M.N.; UVAROVA, N.V.; SHEYNKER, Yu.N.; SUVOROV, N.N.

Syn-anti-isomerism of 3-aryl hydrazones of 6-methyl-2,3-piperidinedione. Dokl. AN SSSR 148 no.5:1088-1090 F '63. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze i Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M.Shemyakinym.

(Piperidinedione) (Hydrazones) (Isomerism)

DVORYANTSEVA, G.G.; STRUCHKOVA, M.I.; SHEYNKER, Yu.N.

Integral intensities of infrared absorption bands of certain characteristic vibrations of cyclopentadienyl rings in ferrocene derivatives. Dokl. AN SSSR 152 no.3:617-620 S '63.

(MIRA 16:12)

l. Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom A.N.Nesmeyanovym.

You'K.M.SHTEYN, F.V., dektor fiz.-matem. nauk, prof., red.; CHEVINKEY, Yu.N., dektor khiz. nauk, red.; Sacillov, -Yu.Yu., kand. fiz.-mat z. nauk, red.; AFT TYPV, V..., kund. khim. nauk, red

(Transactions of the Conference on the Physical Lethods of Study of Organic Compounds and Chemical Processes) Trudy Loveshonania po fizirheskim metodam issledovania organicheskikh zoedinenii i khimicheskikh proteessov. Frunze, Ilim, 1944. 268 p. IEIM 17:11)

1. Soveshchaniye po fizicheskim metodam issledovaniya organicheskikh sovedineniy i khimicheskikh protsessov. Frunze, 1962. 2. Institut vysokomolekulyarnykh sovedineniy AN USSK, Leningrad (for Vol'kenshteyn). 3. Institut khimii prioranykh sovedineniy AN ESSK, Moskva (for Sheynker). 4. Kazerskiy gosudarstvennyy universitet, Hazan' (for Samitov . 5. Institut organicheskoy khimii Al Kiryindovy SSK, Frunze (for Afanas'yev).

Production, M. Fe.; SHEAPPER, Yu.H., Earliev, B.Me., Compressiv, V.A.

Integrated intensities of verbonyl bends of the pyrone and quitone series. 12v.AN. SSER, Sor.khim. no. 5:804-808 My 164.

(MERA 17:6)

L. Institut khimii priro nykh moyedineniy AN SSER i Vsemoyuznyy mutitat lekaratwannykh i nromaticheskikh rasteniy.

PEREL'SON, M.Ye.; SHEYNKER, Yu.N.; DMITRIYEVA, N.D.; LUK'YANETS, Ye. A.; SHUSHERINA, N.P.; LEVINA, R.Ya.

。 1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,19

Integrated intensities of C=0 bands in the infrared spectra of substituted'a-pyrones. Izv. AN.SSSR.Ser.khim. no. 5:938-941 My '64. (MIRA 17:6)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

YAGUDAYEV, M.R.; POPOV, Ye.M.; YAKOVLEV, I.P.; SHEYNKER, Yu.N.

Frequencies and intensities of infrared absorption bands of the stretching and deformation vibrations of the NH₂ group in primary amines. Izv. AN SSSR Ser. khim. no.7:1189-1196 Jl '64. (MIRA 17:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

RPL RM	8/0020/64/156/004/0873/0876
ACCESSION NR: AP4041155	h in the second
AUTHOR: Dvoryantseva, G. G.; Sheynke	r. Yu. N.; Yur'yeva, L. P.; Nesmeyanov,
A. N. (Academician) TITIE: Establishing the structure of by their IR absorption spectra.	several isomeric disubstituted ferrocenes
SOURCE: AN SSSR. Dokledy*, v. 156, n	
cenylamide, alkylferrocenylnitrile, p NH sub 2 absorption, region, isom integral intensity	ferrocene, structure, IR spectra, alkylferro- henylferrocenylamide, phenylferrocenylnitrile, er, spatial hindrance, spectral
and alkylferrocenylnitriles were examisomers. There are differences in the mono- or heterocyclic disubstituted is stituted isomers, but because of differences are reduced.	of several alkyl- and phenylferrocenylamides ined to determine the structure of the e absorption in the 910-920 cm ⁻¹ region in terrocenes and in pairs of homosyclic disubticulties in identifications in this region, the frequency and intensity characteristic of somers there are differences in the 1500-1700

L 10666-65

ACCESSION NR: AP4041155

(C=O) and 3100-3500 cm-1 (NH2) regions: the band for the deformed vibrations of the NH2 group splits simultaneously with a decrease in the splitting of the bands in the region of the NH valency vibrations; the spectra contain absorption bands for both free and bonded NH-groups. In the 1,3-isomers of methylferrocenylamide and phenylferrocenylamide there is not splitting of the WH2 band (in the corres ponding ethyl derivative the slight splitting is explained by the effect of the ethyl radical on the amide group). The spectra of the 1,3-isomers in CCli are somewhat similar to spectra of solutions of the corresponding 1,1'-derivatives; they have no bands characterizing bonded NH-groups. The isomers differ in the integral intensity of the carboxylic amide group. The ethyl group in the 1,1'and 1,3-isomers increases the integral intensity in comparison to that of the unsubstituted ferrocenylamide. In the 1,2-isomers, methyl and ethyl substituents do not cause this increase, apparently due to loss of conjugation of the amide group with the cyclopentadienyl ring because of spatial hindrance. These conclusions about the structure of these compounds based on IR spectra are in agreement with oxidation-reduction potentials, UV spectra and comparative adsorptions on Al203. Further studies are being conducted. Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: Institut khimii prirodny*kh soyedineniy Akademii nauk SSSR

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EPF(c)/EMP(5)/EXT(n) UR/0062/64/000/011/1979/1984 22 ACCESSION NR: AP5015797 AUTHOR: Senyavina, L. B.; Dyatlovitskaya, E. V.; Sheynker, Yu. N.; Bergel'son, TITLE: Infrared spectra of acylmethylenetriphenylphosphoranes and their salts SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 11, 1964, 1979-1984 TOPIC TAGS: organic phosphorus compound, IR spectrum, IR spectroscopy Abstract: The infrared spectra of a number of alpha-acylmethylenetriphenylphosphoranes and the corresponding phosphonium salts were studied on the assumption that increasing the polarity of the carbonyl group should produce a substantial increase in the intensity of the C=0 band. Special attention was paid to the measurement of the intensities of the bands of the valence vibrations of carbonyl in these compounds. The infrared spectra of seven of the compounds were characterized for the first time. Carbonyl-containing triphenylphosphonium salts Card 1/2

L 52565-65 ACCESSION NR: AP5015797 [(C6H5)3PCHCOR]Halwere found to possess frequencies of the valence vibration of carbonyl close to the known values of the frequencies for saturated carbonyl-containing compounds, while in the phosphoranes (C₆H₅)₃P=CR₁-CO-R, the position of the absorption band of carbonyl was shifted 100-180 cm⁻¹ into the low-frequency region. The intensities of the carbonyl bands in the spectra of acylmethylenetriphenylphosphoranes were substantially increased, while in the spectra of the salts they were somewhat lowered in comparison with the normal values. The data obtained agree with an ylide structure of acylmethylenetriphenylphosphoranes, in which the polarity of the C=O groups is greatly increased, and the negative charge is localized to a considerable degree on the oxygen, rather than on the ylide carbon, as in alkylidenephosphoranes. Orig. art. has I formula, 2 graphs, and I table. ASSOCIATION: Institut khimii prirodnykh soyedineniy Akademii nauk SSSR (Institute of the Chemistry of Natural Compounds, Academy of Sciences, SSSR)

SUBLIMBURGE, OCPORTS

ENGL: 00 SUB CODE: 0C, 0P SUBMITTED: 06Feb63 **JPRS** OTHER: 012 NO REF SOV: 003

SHEYNKER, Yu.N.; SENYAVINA, L.B.

Position and the intensity of antisymmetrical stretching band of the N₂ group in the infrared spectra of organic azides.

Izv. AN SSSR Ser. khim. no.11:2113 N 164 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

PERESLENI, Ye.M., SHEYNKER, Yu.N.

Tautomerism of some derivatives of heterocyclic compounds.

Part 15. Zhur. fiz. khim. 38 no.9:2152-2157 S '64.

(MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-formatsevti-cheskiy institut imeni Ordzhonikidze, Moskva.

SHEYNKER, Vi.N.: PEK, G.Yu.; PEREL'SON, M.Ye.

Nuclear magnetic resonance spectra of natural coutarins and furceoumarins. Lokl. AN SSSR 158 no.6:1322-1385 C '64. (MIRA 17:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Vsesoyu myy institut lekaratvennykh i aromaticheskikh rasteniy. Predstavleno skadenikom M.M. Shemyakinym.

PEREL'SON; M.Ye.; NIKONOV, G.K.; PEK, G.Yu.; SHEYNKER, Yu.N.

Structure of xanthogalol and zosimol. Dokl. AN SSSR 159 no.1:154-157 N '64. (MIRA 17:12)

l. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy i Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M. Shemyakinym.

SHEWEKER, Yu.N.; ZA TSEV, B. Ye.; PEREL'SON, M. Ye.

Integral intensities of carbonyl bands in the infrared spectra of some cyclic compounds. Izv. AN SSSR Ser. khim. no.11:2114 N 164 (MIRA 18:1)

1. Institut khimii prirodnykh soyedinemiy AN SSSR i Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy.

NESMEYANOV, A.N., akademik; DVORYANTSEVA, G.G.; KOCHETKOVA, N.S.;
MATERIKOVA, R.B.; SHEYNKER, Yu.N.

Properties and structure of dicyclopentadienylmercury. Dokl.
AN SSSR 159 no.43847-850 D 164 (MIRA 18:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

PERESLENI, Ye.M.; SHKYNKER, Yu. N.; ZOSIMOVA, N.P.; POMERANTSEV, Yu.I. (Moskva)

Tautomerism of some derivatives of heterocyclic compounds.

Report 17. Zhur. Fiz. Whim. 39 no. 192-99 is '67

(MIRA 19:1)

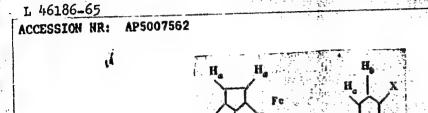
1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Submitted February 27, 1964.

SENYAVINA, L.B.; SHEYNKER, Yu.N.; ZHELTOVA, V.N.; DOMBROVSKIY, A.V.; SHEYCHUK, M.I.

Infrared spectra of aroylmethylenetriphenylphosphoranes and their salts. Izv. AN SSSR, Ser. khim. no.5:895-898 '65. (MIRA 18:5)

1. Institut knimii prirodnykh soyedineniy AN SSSR.

L 46186-65 EWT(1)/	'EWT(m)/EPF(c)/EWP(j)/EE	C(t) Pc-4/Pr-4/Pi-4 FJP	(c)
WN/GG/RM ACCESSION NR: AP5007.	562	\$/0020/65/160/005/1075/	2006年1月1日 安徽省省
Sheynker, Yu. N.; Nes	, G. G.; Portnova, S. L.; meyanov, A. N. 21	Grandberg, K. I.; Gubin, S. F	50 B
SOURCE: AN SSSR. Do	klady, v. 160, no. 5, 196	5, 1075-1078	
TOPIC TAGS: nuclear constant, cyclic comp	magnetic resonance, ferro ound, cyclopentadienyl me	cene, proton resonance, Hammetal	t
resolution nuclear ma stituted ferrocenes, netic resonance spect tuted ferrocenes, a s	gnetic resonance spectra using 10-15% solutions in crometer. In the proton r singlet is produced by the	hifts of proton signals in hi of mono- and heteroannular di CCl4 and an INM-C-60 nuclear esonance spectra of all monos five equivalent protons of t at are produced by the (1) and oin interaction constant 1	mag- ubsti- ne un- d (o)
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It was found that the chemical shifts of protons of the unsubstituted ring are chiefly determined by the induction effect of the substituents. The observed values of the shifts δ_b and δ_c indicate a considerable effect of the conjugation of the substituent on the chemical shifts of protons of the substituted ring. Correlations are presented between the values of $\delta_c - \delta_a$ and the conjugation constants of the substituents, between the chemical shifts and the induction constants of the substituents, and between the chemical shifts of protons of the substituted rings and the Hammett constants σ_c of the substituents. The results of the study make it possible to draw a close analogy between the magnitude and character of the influence of the substituents on the (a), (b), and (c) hydrogen atoms of the ferrocenyl nucleus, and correspondingly on the meta, ortho, and para hydrogen atoms of the phenyl nucleus. Orig. art. has: 3 figures, 2 tables, and 5 formulas.

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Position and intensity of the absorption band of the antisymmetric valence vibration of the group N₃ in the infrared spectra of organic azides. Dokl. AN SSSR 160 no.6:1339-1342 F '65.

(MIRA 18:2)

1. Institut khimii prirodnykh soyedineniy AF SSSE. Submitted August 29, 1964.

DVORYANTSEVA, G.G.; SHEYNKER, Yu.N.; NESMEYANOV, A.N., akademik; NOGINA, O.V.; LAZAREVA, N.A.; DUBOVITSKIY, V.A.

Infrared spectra of some cyclopentadienyl compounds of titanium. Dokl. AN SSSR 161 no.3:603-606 Mr 165.

(MIRA 18:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut khimii prirodnykh soyedineniy AN SSSR.

NEFEDOW, O.M.; KOLESNIKOV, S.P., SHEYCHENKO, V.I.; SHEYNKER, Yu.N.

Etherates of trihalogermanac studies by nuclear magnetic resonance spectroscopy. Dokl. AN SSSR 162 no.3:589-592 My 165. (MIRA 18:5)

1. Institut organicheskoy khimit im. N.D. Zelinskogo AN SSSR i Institut khimii prirodnykh soyedineniy AN SSSR. Submitted July 21,1964.

PERESIENI, Ye.M.; SHEYNKER, Yu.N.; ZOSIMOVA, N.P.

Tautomerism of some derivatives of heterocyclic compounds.
Part 17. Zhur. fiz. khim. 39 no.4:926-931 Ap '65.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Submitted Nov. 30, 1963.

SHCHIPANOV, V.P.; PORTNOVA, S.L.; KRASNOVA, V.A.; SHEYNKER, Yu.H.;
POSTOVSKIY, I. Ya.

Structure and spectra of 5-aminotetrazoles and their acyl derivatives. Zhur. org. khim. 1 no. 12:2236-2214 D '65 (MIRA 19:1)

1. Ural'skiy politekhnicheskiy institut imeni Kirova i Institut khimii prirodnykh soyedineniy AN SSSR. Submitted December 9, 1964.

YAGUDAYEV, M.R.; SHEYNKER, Yu.N.

Integral intensity of bands of stretching and deformation vibrations of a primary amino group in different solvents. Uzb.khim.zhur. 8 no.4:86-88 64. (MIRA 18:12)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. Submitted August 22, 1963.

LOKSHIN, C.P.; KHOKHIOY, A.S.; SHEYNKER, Yu.M.; SENYAVINA, L.E.

Chemical and spectroscopic study of altonoursin. Khim. prirod. soed. no.6:395-400 165. (MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Vsesoyuznyy nauchno-issledovateliskiy institut antibiotikov. Submitted Feb. 5, 1964.

ACC NR: AP6012080 SOURCE CODE: UR/0062/65/000/005/0895/0898

AUTHOR: Senyavina, L. B.; Sheynker, Yu. N.; Zheltova, V. N.; Dombrovskiy, A. V.; Shevchuk, M. I.; Kabachnik, M. I.; Mastryukova, T. A.; Melent'yeva, T. A.

ORG: Institute of the Chemistry of Natural Compounds, AN SSSR (Institut khimii prirodnykh soyedineniy AN SSSR)

TITLE: Infrared spectra of aroylmethylenetriphenylphosphoranes and their salts

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1965, 895-898

TOPIC TAGS: IR spectrum, organic salt, organic phosphorous compound, electron donor, cyclic group

ABSTRACT: The integral intensities of the carbonyl absorption in the infrared spectra of aroylmethylenetriphenylphosphoranes (in which the carbonyl group is bonded to a phenyl ring) and their salts were measured. The data were considered from the standpoint of electron donor and electron acceptor properties of the phosphorus atom and the aromatic rings of the aroyl group, as well as the influence of substituents in the aromatic ring on the absorption intensity. The addition of an aromatic group to the carbonyl in phosphoranes led to a decrease in the frequency and intensity of the valence vibration of the carbonyl group in comparison with the corresponding aliphatic derivatives, evidently as a result of the functioning of the aromatic ring as an electron acceptor, competing with the carbonyl group for electrons from the strong electron-donor phosphorus atom. The frequency and in-

1. 20707-00

ACC NR: AP6012080

tensity of the C=O vibration are also determined by the configuration of the molecule, determined in turn by the size of the substituent at the carbonyl group. In phosphorane salts, the tetracovalent positive phosphorus plays the role of an electron acceptor, resulting in a sharp drop in the intensity of the C=O band in comparison with phosphoranes. The absorption bands in the region of 1317-1390 cm⁻¹ for arylmethylenetriphenylphosphoranes and 1389-1412 cm⁻¹ for aroylmethyltriphenylphosphoranes were tentatively assigned to the vibration of the P=C band. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 07 / SURM DATE: 20Jul64 / ORIG REF: 005 / OTH REF: 004

Card 2/2/17/1

L 04262-67 EWT(1)/EWT(m)/EWP(j)/T/EWP(k)/EWP(1) IJP(c) WG/RTW/RM

ACC NR: AP6030020 SOURCE CODE: UR/0020/66/169/005/1083/1086

AUTHOR: Dvoryantseva, G. G.; Yur'yeva, L. P.; Portnova, S. L.; Sheynker, Yu. N.; 12 Nesmeyanov, A. N. (Academician)

OFG: Institute of Chemistry of Natural Compounds, Academy of Sciences SSSR (Institut khimii prirodnykh soyedineniy Akademii nauk SSSR); Institute of Hetero-Organic Compounds, Academy of Sciences SSSR (Institut elementoorganicheskikh soedenineniy Akademii nauk SSSR)

TITLE: Proton magnetic resonance spectra of disubstituted ferrocenes

SOURCE: AN SSSR. Doklady, v. 169, no. 5, 1966, 1083-1086

TOPIC TAGS: proton resonance, ferrocene, analytic chemistry, spectrum analysis

ABSTRACT: The proton magnetic resonance spectra of 25 heteroannular disubstituted ferrocenes with various substituents in both rings were taken and the rule of additivity of chemical shifts of the ring protons was established. The structure of several homoannular isometric amids of methyl- and ethylphenyl-ferrocene carboxylic acids and nitriles of ethyl- and phenyl ferrocene carboxylic acids was defined on the basis of the PMR spectra. The PMR spectra were measured using 10% solutions in CCl4 and CDCl3 and a JNMC-60 spectrometer with an operating frequency of 60 megacycles. In all cases excellent agreement was observed between the experimentally determined chemical shifts

UDC: 538.113+547.13+546.72

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L 60361-65 EWA(h)/EWP(k)/EWT(d)/EWT(1)/EWP(h)/ETC(m)/EEC(m)/EWA(d)/EWP(1)/EWP(v)

Pf-Li/P1-Li/Pc-li/Pg-li/Ps-Li/Peb WW

ACCESSION NR: AP5019057

UR/0286/65/000/012/0085/0085
681.121

AUTHORS: Podgoyetskiy, M. L.; Shvartser, V. I.; Sheynkerman, E. 2.; Shvartser, L. I.; Turina, M. A.; Fatoyeva, N. V.

TITLE: Pneumatic flow meter. Oclass 42, No. 172074

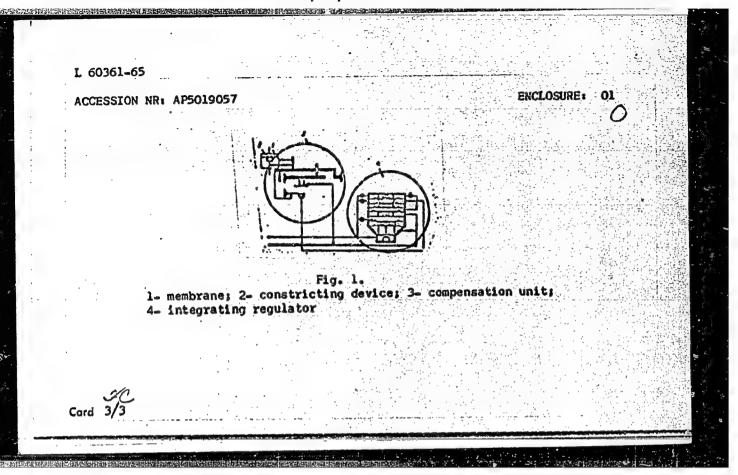
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 85

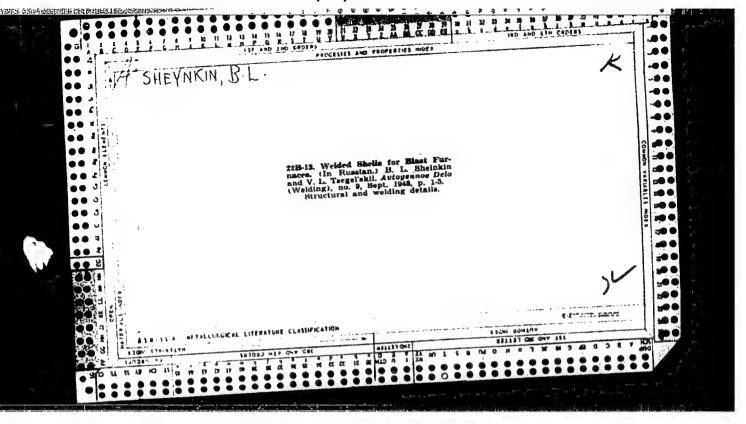
TOPIC TAGS: flow meter, pneumatic device

ABSTRACT: This Author Certificate presents a pneumatic <u>flow meter</u> containing a measuring unit and a pneumatic transducer. To increase the accuracy of measurement, the sensitive unit of the measuring unit is in the form of a membrane. The membrane is provided with a constricting device, e.g., a throttle, which is kinematically coupled by a system of levers to a compensation unit (see Fig. 1 on the Enclosure). To eliminate natural vibrations and to obtain zero compensation, an integrating regulator is included in the feedback channel. Orig. art. has: 1 diagram.

ASSOCIATION: Konstruktorskoye byuro "Tsvetmetavtomatika" pri gosudarstvennom komitete tyazhelogo energeticheskogo transportnogo mashinostroyeniya pri gosplane, SSSR (Construction Bureau "Automatic Equipment for Nonferrous Metals" for the State Committee of Heavy Power Transport Machine Construction for Gosplan, SSSR)

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SHEYNKIN, B.L.

Introduction of new organization and production methods in structural-steel work. Stroi.prom. 31 no.6:15-17 Je 153. (MLRA 6:7)

1. Trest Stal montazh.

(Building, Iron and steel)

SHEYNKIN, B.L.; DAVIDOVSKIY, I.Z.

Rapid construction of a blast furnace for the Orsk-Khalilovo
Metallurgical Combine. Prom. stroi. 37 no.1:45-50 Ja '59.

(MIRA 12:1)

1.Trest Stal'montazh.

(Orsk-Khalolovi Industrial District--Blast furnaces)

SHEYNKIN, G.Tu.

Measures for combating swamping and alkalinity of land in the Measures for combating system. Izv.Otd.est.nauk AN Tadsh.SSR Shuroabad irrigation system. Izv.Otd.est.nauk AN Tadsh.SSR (MIRA 9:10) no.12:79-94 '55.

1. Nauchno-issladovatel'skoye byuro Moskovskogo instituta inzhenerov vodnogo khozyaystva.

(Kuybyshev District (Tajikistan)--Reclamation of land)

SHEYNKIN., G. YU.

SHEYNKIN. G. YU.

"Operational methods of combating alluvium in irrigation systems by the use of laketype settling tanks (on the example of Bakhshskaya Valley)." Min Higher Education USSR. Moscow Inst of Water Economy Engineers imeni V. R. Vil'yams. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 15, 1956. Noscow.

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing.

M

: Ref Zhur Biol., No 18, 1958, 82415 Aos Jour

Author

: Sheyakin, G. Vedenyapin, V., Gorbunova, Ye.

Inst Title : Experiment in the Application of Concentrated Irrigation

of Cotton Plant in Vakhshskaya Valley

Orig Pub

: Kilopkovodstvo, 195γ, No 12, 32-38

Abstract

: In accordance with the proposal of the Moscow Institute of Water Management Engineers, the old system of cotton irrigation in a number of kolkhozes of Tadzhik SSR (irrication of small isolated fields during several days) was substituted with a new system of concentrated waterings in which the area of a simultaneous watering was increased by two-three times and was brought to the area of the daily performance of the tractor. Application of concentrated irrigation provides a simultaneous readiness of the soil of the plot, decreases the interval between the

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CIA-RDP86-00513R001549330010-5" APPROVED FOR RELEASE: 08/09/2001

NATAL'CHUK, M.F.; VEDENYAPIN, V.Ye.; SHEYNKIN, G.Yu.; GORBUNOVA, Ye.N.

Planning and carrying out the irrigation of cotton on collective and state farms within the Vakhsh irrigation system. Trudy AN Tadah.SSR 78:193-254 '57.

(Vakhsh Valley--Cotton growing)

(Vakhsh Valley--Irrigation)

NATAL'CHUK, M.F., dots.; SHEYNKIN, G.Yu., kand. tekhn. ngak; VEDENYAPIN,
V.Ya., inzh.; VOROTAIN, G.Ya., inzh.; GOHBUNOVA, Ye.N., inzh.;
TROITSKIY, A.A., red.; STARKTS, R., red.; POINTORAK, I., tekh. red.

[Organizing concentrated irrigation of cotton] Organizatsiia
sosredotochennykh polivov khlopchatnika. Stalinabad, Tadzhi(MIRA 11:10)
kskoe gos. izd-vo, 1958. 33 p.

(Gotton growing) (Irrigation farming)

SHEYNTIN, G. YU.

99-58-5-8/10

AUTHORS:

Bogushevskiy, A.A.; Yegorov, V.I.; Sheynkin, G.Yu.

TITLE

Anniversary Scientific Conference of the Moscow Institute of Engineers of Hydraulic Engineering imeni V.R. Wiliams (Yubileynaya nauchnaya konferentsiya Moskovskogo instituta inzhenerov vodnogo khozyaystva imeni V.R. Viliyamsa)

PERIODICAL:

Gidrotekhnika i Melioratsiya, Nr 5, pp 56-59 (USSR) 1958

ABSTRACT:

This conference was convened in Moscow in November 1957, on the occasion of 40-th Anniversary of the October revolution. Representatives of 38 institutes, ministries, academies of sciences, and other organizations participated: 80 reports were made on different branches of hydro-melioration engineering among them the review lectures of Dotsents S.F. Aver"yanov, N.A. Karambirov, N.D. Kremenetzkiy, Academicians A.N. Asko-chenskiy, Ye.A. Zamarin, and Professors M.F. Poyarkov, D.Ya. Sokolov and M.M. Florinskiy. In the Section of Agricultural Melioration and Water-Supply 27 reports were read. The melioration of bottom lands was the subject of the reports of: Candidate of Agricultural Sciences Ye.S. Markov, Professor

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99-58-5-8/10

Anniversary Scientific Conference of the Moscow Institute of Engineers of Hydraulic Engineering imeni $V_{\circ}R_{\circ}$ Williams

I.I. Plyusnin, Dotsents T.A. Lobanova and I.A. Vernikovskaya (MIIVKh). The projecting type of meliorative systems, construction and operation of drainage were reported by: Engineer P.G. Fialkovskiy (Rosgiprovodkhoz) Candidate of Technical Sciences V.A. Rozin (SevNIIGiM), Engineer P.B. Sviklis (LatNIIGiM) and Candidate of Technical Sciences R.Ya. Narodetskaya (Rosgiprovodkhoz). New techniques in the field of irrigation were reported on by: Candidates of Technical Sciences A.A. Bogushevskiy and M.Z. Gankin (Giprovodkhoz) and the Engineer S.Z. Tsanov (MIIVKh). Questions of planning in cotton-growing regions of Central Asia were reported on by Candidates of Technical Sciences, A.N. Lyapin (TIIIMSKh) and N.P. Samsonova (VNIIGIM). The questions of rural water supply were reported on by: Dotsent N. A. Karambirov (MIIVKh), Dotsent S.N. Gusev (MIIVKh) and Rosgiprovodkhoz), Engineer N.P. Frog (Giprovodkhoz) and Engineer V.A. Ruzhinskaya (Lengiprovedkhoz). Professor A.L. Rubinshteyn and Dotsent i.I. Trofimov(MIIVKh) reported on the problem

Card 2/ 4

99-58-5-8/10

At hiversary Scientific Conference of the Moscow Institute of Engineers of Hydraulic Engineering imeni V.R. Williams

of loess soil. The water losses to irrigation canals and the question of reducing them were the objects of the reports by: Academician V.V. Poslavskiy, Candidates of Technical Sciences S.A. Girshkan (Glavvodkhoz MSKh USSR) and G.V. Abelishvili (GruzNIIGiM) and Doctor of Technical Sciences N.P. Chebotarev (Kiyev GMI). In the section of hydro-technical constructions 16 reports were read. Professor K.V. Popov (MIIVKh) eulogized the late Professor V.V. Podarev. Reports concerning irrigation structures, automation and mechanization of irrigation systems, etc., were made by: Dotsents M.V. Korovchinskiy (MIIVKh), A.N. Ivanov (MIIVKh), I.A. Vasil'yeva (MIIVKh), Candidate of Technical Sciences S.G. Melik-Nubarov, Engineer V.A. Andreyev (Sredazgiprovodkhlopok), Assistant S.A. Bryzgalov. Other reports in this section were read by: Candidates of Technical Sciences Z.M. Guzov (Kiyev GMI) and T.I. Aref'yeva (MIIVKh), Professor L.M. Emel'yanov and Dotsent S.V. Vinogradov (MIIVKh), Dotsent G.I. Kolyayev (Kiyev GMI), and Engineers V.S. Misenev (MIIVKh) and V.G. Sokolovskiy (LatNIIGiM). In the section

Card 3/4

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5"

99-58-5-8/10

Anniversary Scientific Conference of the Moscow Institute of Engineers of Hydraulic Engineering imeni V.R. Wiliams

of utilization of water energy, of pumping stations, hydromechanics and hydraulic engineering 19 reports were read. Professor M.F. Poyarkov (MIIVKh), Doctor of Technical sciences Ya.W. Flekser, Dotsent Kovaleako reported on achievements in rural electrification; exploitation of hydro-electric stations. Professor N.P. Chebotarev and Candidate of Technical Sciences F.T. Markovskiy (Kiyev GMI) reported on calculations of hydraulic power projecting. On problems of projecting and exploitation of pumping stations, reports were read by: Professor M.M. Florinskiy, Dotsents A.A. Tret"yakov and M.I. Lyatskiy, and Candidate of Technical Sciences N.A. Gretsov (MIIVKh). The questions of hydro-mechanics and hydro-dynamics were reported on by: Professors S.S. Byushgens (MIIBKh), F.I. Pikalov (MIIVKh) and G.V. Zheleznyakov, Dotensts V.P. Pilatovskiy, M.V. Korovchinskiy, G.T. Dmitriyev, V.P. Kazakov, Engineer I.G. Kobernik and O.M. Ayvazyan (MIIVKh).

AVAILABLE: Card 4/4 Library of Congress

1. Conferences-Hydraulic Engineering-Moscow 2. Irrigation systemsUSSR 3. Water supplies-USSR 4. Drainage-USSR 5. AgricultureUSSR

USSR

NATAL'CHUK, M.F., dotsent; SHEINKIN, G.Yu., kand.tekhn.nauk; VEDENYAPIN,
V.Yo., inzh.; GOREUHOYA, To.N., inzh.; VOROPAYEV, G.Y., inzh.;
STARKTS, R., red.; POITORAK, I., tekhn.red.

[Use of water on farms of the Wakhsh Valley] Vnutrikhoziaistvennoe
vodopol'zovenie v Vakhshskoi doline. Stalinabad, Tadzhikskoe gos.
izd-vo, 1959. 77 p.

(Yakhsh Valley--Cotton--Irrigation)

SHEYNKIN, G.Yu.

Hydraulic flushing of sediments in the Kum-Sangir Canal. Izv.

Otd. geol.-khim. i tekh AN Tadzh. SSR no.1:55-62 '59. (MIRA 14:8)

1. Moskovskiy institut inzhenerov vodnoge khozyaystva imeni V.R. Vil'yamsa.

(Vakhsh Valley-Irrigation canals and flumes)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5"

SHEYNKIN, G.Yu.; MALYGIN, V.A.

Effect of the Karalang sedimentation reservoir on the quality of irrigation waters and the ground water conditions of the surrounding lands. Izv. Otd. est. nauk AN Tadzh. SSR no.3:121-130 159. (MIRA 15:5)

 Moskovskiy institut inzhenerov vodnogo khozyaystva imeni V.R. Vil'yamsa.

(Vakhsh Valley--Irrigation)

SHEYNKIN, G.Yu., kand.tekhn.nauk; GORBUNOVA, Ye.N., mladskiy nauchnyy sotrudnik; SURIN, V.A., mladshiy nauchnyy sotrudnik

Automation of irrigation by means of a combined network of closed stationary and flexible portable polyethylene pipes.

Izv. TSKHA no.3:109-124 '61. (MIRA 14:9) (Irrigation)

SHEYNKIN, G.Yu.

Automation of cotton irrigation. Dokl. AN Tadzh. SSR 4 no.4:
(MIRA 15:1)

39-42 161.

1. Moskovskaya ordena Lenina sellskokhozyaystvennaya akademiya imeni Timiryazeva. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR V.A. Starikovym. (Cotton-Irrigation)

SHEYNKIN, G.Yu., kand.tekhn.nauk; GORBUNOVA, Ye.N., mladshiy nauchnyy sotrudnik; SURIN, V.A., mladshiy nauchnyy sotrudnik

Combined irrigation system consisting of closed stationary and mobile flexible polyethylene pipelines. Gidr. i mel. 13 no.6:

(MIRA 14:6)

13-24 Je *61.

SHEYNKIN, G.Yu., kand.tekhn.nauk; SURIN, V.A., inzh.

Experiments in the use of flexible polyethylene pipelines in irrigation. Gidr. i mel. 14 no.7:3-13 Jl '62. (MIRA 17:2)

l. Moskovskaya ordena Lenina sel skokhozyaystvennaya akademiya imeni Timiryazeva.

GENTMEIN, G. Tu., kend, tekhn. nauk; SEGIN, V.A., kend. tekun. nauk
Controlling the sediments in the proclines of an irrigation network.
Gidr. 1 mel. 17 no.1:7-17 Ja '65.

1. Moskovskiy gidromeliorativnyy institut.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549330010-5

s/135/63/000/001/016/016 A006/A101

AUTHOR:

Sheynkin, M. A., Engineer

Thematic Conference on welding in water vapor shield

: או דין יריוי

Svarochnoye proinvodstvo, no. 1, 1963, 45 PERIODICAL:

A Conference on welding in water vapor shield was held in Kramatorsk on September 18 - 19, 1962. The Conference was opened by Engineer B. G. Ioffe, On deptember 10 - 19, 1904. The Conference was opened by Engineer D. J. Torrey, Senior welder in the Donets SNKh. The following reports were heard: L. S. Sapiro, Candidate of Technical Sciences (Donets Plant imeni 15-letiya LKSMU) on "Determining the possible application and experimental industrial use of welding in water va-1. V. I. Lakomskiy, Candidate of Technical Sciences, IES imeni Ye. O. Paton, on "Interaction of hydrogen with metal in electric-arc welding"; Engineer V. A. On Interaction of Hydrogen with metal in electrical velding, Lagrice in a Gubenko, Kramatorsk NIIPTEASh, on "Physico-chemical processes in welding in a water vapor shield"; A. S. Fal'kevich, Candidate of Technical Sciences, and M. Z. Shenkina, Engineer, on "Peculiarities in arc-burning and metal transfer during shenkina, Engineer, on "Peculiarities in arc-burning and metal transfer during sheat are transfer during and metal transfer during sheat are transfer during and sheat are transfer during an are transfer duri Sheinkina, Engineer, on recultarities in arc-ourning and metal transfer during welding in water vapor shield"; and "The effect of the electric power character—welding in water vapor shield"; and "The effect of the electric power character—welding in water vapor shield"; werting in water vapor Shierd; and the efficiency of welding"; istics of the welding arc, burning in water vapor, on the efficiency of welding

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5" S/135/61/000/001/012/018 A006/A001

AUTHORS:

Fal'kevich, A.S., Candidate of Technical Sciences, Sheynkin, M.Z.,

Engineer

TITLE:

On Welding in Water Vapor Medium

PERIODICAL:

Svarochnoye proizvodstvo, 1961, No. 1, pp. 43 - 44

TEXT: The use of welding in water vapor is particularly interesting in the construction of main pipelines on the site, due to the cheapness and simplicity of producing the shielding atmosphere. The VNIIST laboratory studied the possibility of using water vapor as a shielding medium when welding steel pipes. A machine was used consisting of an automotive trolley with a AC-59 (AS-59) head designed by VNIIST, assuring oscillations of the electrode across the butt at a required frequency (f) and amplitude, A, and a steam generator designed by the Stalino Plant imeni 15-letiye LKSMU. Planks, 10 - 12 mm thick, were joined by V-welds at an angle of $60 - 70^{\circ}$, using 1 - 1.6 mm diameter wire, with transverse oscillations of the electrode (f = 60 periods/sec; A = 3 - 15 mm), in 2 - 4 layers, on d-c of reverse polarity. Welding conditions were: arc voltage $25 \div 30$ v; $150 \div 200$ amp welding current. Water vapor when entering the arc, dissociates into Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5"

S/135/61/000/001/012/018 A006/A001

On Welding in Water Vapor Medium

hydrogen and oxygen. The composition of the gaseous phase in a given temperature range was calculated using the temperature dependence of the equilibrium constant of the dissociation reaction, whereby it was assumed that the sum of partial presures was equal to one. It appears that the gaseous phase in relation to the liquid metal will always be an oxidizing one, and that during wedding considerable oxidation and burning out of a number of steel components will take place. It is also stated that the water vapor medium is more oxidizing than carbon dioxide at 1800-2,000°C. These theoretical assumptions are confirmed by experimental data, which show that carbon, manganese and particularly silicon burn out intensively. An improved content of alloying elements in the weld metal can be obtained using silico-manganese wire, in particular [6-08 \Gamma 2 \Gamma A (Sv-08 G2SA) wire yielding higher mechanical properties than Sv-08A wire recommended by L.S. Sapiro in his previous investigations. The welding technology in water vapor calls for further studies in order to ensure stabler mechanical properties and elimination of macrodefects in the weld joints, such as slag impurities etc. There are 3 tables.

ASSOCIATION: VNIIST

Card 2/2

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5 为什么可以是是一个人,我们就是我们的人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们们就是一个人,我们就

s/135/61/000/012/008/008 A006/A101

Khrenov, K. K., Sheynkin, M. Z., Shipov, K. N., Engineers

On techniques for the high-speed filming of a welding arc AUTHORS .

TITLE:

Svarochnoye proizvodstvo, no. 12, 1961, 34-35 For the high-speed filming of a welding arc, the authors suggest a PERIODICAL:

method, replacing the "shadow" method, when light is thrown upon the arc from the side opposite to the camera. The authors propose to illuminate the arc the side opposite to the camera. The authors propose to Illuminate the architecture from both the camera and the opposite side. This method yields a method yields a standard the opposite side. intensively from both the camera and the opposite size. This method yields and the more distinct three-dimensional image of the welding arc, the electrode and the molten metal drop. The front illumination of the arc is performed with two mosten metal drop. The iront lillumination of the arc is performed with 150 amps current carbon-arc KHII-25 (KPD-25) projectors, power-supplied with 150 amps current carbon-arc and the carbon-arc side is made with a 10-km electric each. The illumination from the opposite side is made with a 10-kw electric lamp; the light beams are focused on the electrode by a system of lenses; a dark red KC -17 (KS-17) filter is placed before the lens. A CKC-1 (SKS-1) camera with "Industar-55" lens (F = 300 mm) is employed. For the purpose of establishing volt-ampère characteristics of the arc and of determining the dependence of arc voltage on its length, and the nature of metal transfer,

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5" On techniques for the high-speed filming ...

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high-speed filming is synchronized with current and are voltage oscillographing. For this purpose a special circuit was developed which serves to close the time relay contacts, which switch-on the camera and the oscillograph when the "Start" button is pressed. Difficulties of synchronization are facilitated by the following operation: an oscillograph vibrator is switched on with the aid of contacts and registers the sinusoid of the alternating current. There are 3 figures and 4 Soviet-bloc references.

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549330010-5"

SHEYNKIN, M.Z., inzh.

In the Coordinating Council on Welding. Svar. proizv. no.3:43
Mr '62.

(Electric welding--Congresses)

KHRENOV, K.K., inzh.; SHEYNKIN, M.Z., inzh.; SHIPOV, K.N., inzh.

Tochnique of making high speed motion pictures of the welding arc. Svar. proizv. no.12:34-35 D 141 (MIRA 14:12)

(Motion picture photography, High speed—Scientific applications)

SHEYEKIN, E.Z., inzh.

Conference on the introduction in industry of new methods of mechanized welding with an open arc. Svar. proizv. no.2:43-44. F '62. (MIRA 15:2)

(Electric welding—Congresses)

SHEYNKIN, M.Z., inzh.

Productivity of water vapor shielded welding. Svar. proizv. no.3: 24-25 Mr '62. (MIRA 15:2)

 Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov. (Electric welding) (Protective atmospheres)

SHEYNKIN, M.Z.; KHRENOV, K.K.

Some characteristics of the glowing of the arc and metal transfer in welding with a consumable electrode in a water vapor medium.

Avtom. svar. 15 no.9:40-46 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.

(Electric walding--Equipment and supplies)

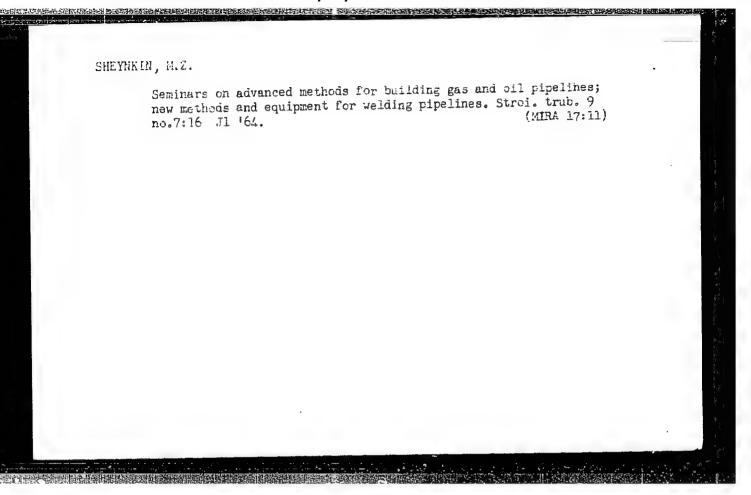
SHEYNKIN, M.Z., kand. tekhn. nauk

Seminar at the Exhibition of the Achievements of the Nationa'

Economy of the U.S.S.R. "New methods and equipment for welding

pipelines". Svar. proizv. no.8:44 Ag 164.

(MIRA 17:9)



TARLINSKIY, V.D., inzh.; SHEYNKIN, M.Z.,kand. tekhn. nauk

New technology of pipe welding. Inform. biul. VDEKH no.10:
10-11 0 '64 (MIRA 18:1)

TARLINSKIY, V.D., SHEYNKIN, M.Z.

Investigating the possibilities of increasing the efficiency of welding pipelines with powder wire. Stroi. truboprov. 9 no.8:14-17 Ag '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu magistral'nykh trukoprovedov.

31865 S/123/61/000/023/017/018 A052/A101

26.7181 AUTHORS:

Romanenko, S. V., Sheynkman, A. G.

TITLE:

Temperature changes of the supersonic gas flow in a tube with heat

elimination

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 23, 1961, 28, abstract 23I175 ("Izv. Kiyevsk. politekhn. in-ta," no. 30, 1960, 31-37)

A theoretical analysis is carried out of temperature changes of a one-dimensional supersonic flow passing in a tube with heat elimination at a constant temperature of the wall $T_{\rm W}$. The analysis is based on the assumption that under above conditions the generalized hydrodynamic theory of heat exchange holds true. It has been found out that at a supersonic flowing in a tube at any $6 = \frac{T_0}{T_0}$ ($T_0 - i$) in a tube at any $T_0 = \frac{T_0}{T_0}$ ($T_0 - i$) is part temperature) up to $T_0 = \frac{T_0}{T_0}$ only deceleration of the flow can take place. Depending on the relation of $T_0 = \frac{T_0}{T_0}$ and $T_0 = \frac{T_0}{T_0}$ take place. Depending on the relation of $T_0 = \frac{T_0}{T_0}$ the flow can increase and decrease. In the diagram (6, M) the boundary line is found, which separates the regions of increase and decrease of the temperature and its asymptotes; when the boundary line is intersected by integral curves, the temperature in the flow reaches maximum (on its right-hand branch)

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"APPROVED FOR RELEASE: 08/09/2001

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Temperature changes of the supersonic ...

31865 \$/123/61/000/023/017/018 A052/A101

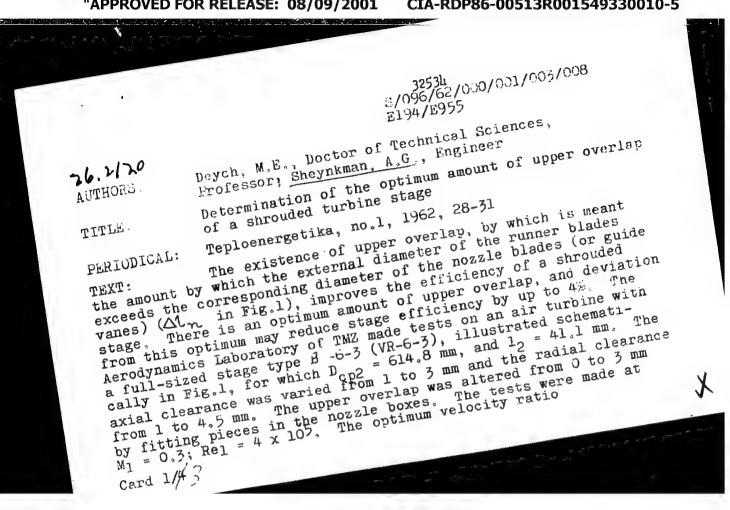
and minimum (on the left-hand one). The position of the probable point of contact of one of the integral curves with the boundary line is determined. The temperature changes along this integral curve as well as along the curves below it have a monotonous character. The physical nature of the discussed phenomena is explained.

V. Kirillov

[Abstracter*s note: Complete translation]

Card 2/2

X



32534 s/096/62/000/001/003/008 E194/E955

Determination of the optimum ...

 $u/c_0 = 0.49 - 0.50$. The graph of Fig. 4 plots deviation from the optimum efficiency (on the y axis) against excursions from the optimum upper overlap, and shows that insufficient overlap is generally more harmful than a corresponding excursion above the generally more harmful than a corresponding excursion above the optimum. It is considered that acceptable manufacturing tolerances on the optimum overlap are: when overlap $\Delta l_{N} \leq 3$ mm, tolerance of a tolerance of -25% and +50%; when $\Delta l_{N} > 3$ mm, a tolerance of a tolerance of -25% and +50%; when $\Delta l_{N} > 3$ mm, a tolerance of a tolerance of the optimum amount of upper overlap of a shrouded turbine stage when (with a notation of Fig.1) overlap of a shrouded turbine stage when the following $l_{CPl}/l_{1} > 15$, $l_{1} < 0.5$, $l_{2} < 0.6$, $l_{3} < 0.005 l_{CPl}$ the following

formula is recommended: $\frac{\rho_{t}^{+}}{1-\rho_{t}}$ $\frac{\text{equiv}}{\text{sin } \alpha_{n}}$

where

 $\delta_{\text{equiv}} = \frac{\delta_{\text{g}}}{1 + n_{\text{p}}(o_{\text{p}}/A_{\text{p}})}$ कि हो

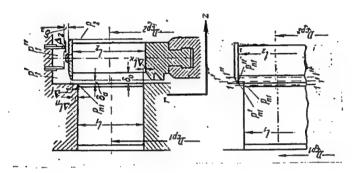
Determination of the optimum ...

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S/096/62/000/001/003/008 E194/E955

There are 4 figures, 1 table and 8 Soviet-bloc references.

ASSOCIATION: MEI Ural'skiy turbomotornyy zavod (MEI and Ural Turbine Engine Works)



Card 3/4 3

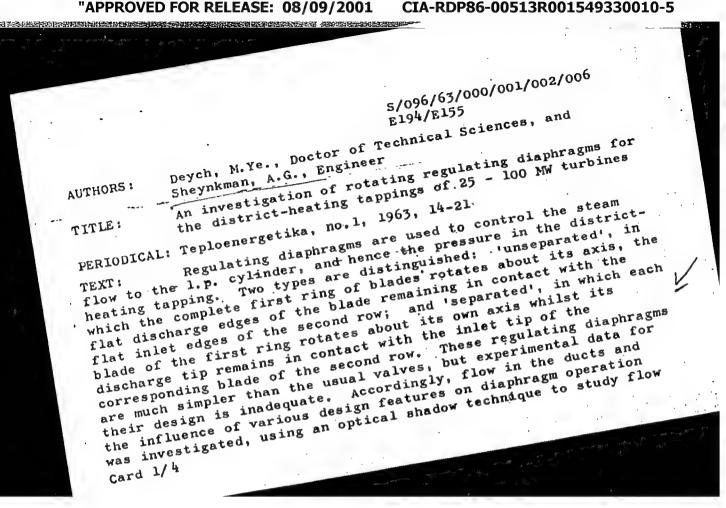
Fig.1.

DEYCH, M.Ye., doktor tekhn.nauk, prof.; SHEYNKMAN, A.G., inzh.

Determining the optimum magnitude of the upper overlapping of a shrouded turbine stage. Teploenergetika 9 no.1:28-31 Ja 162. (MIRA 14:12)

5/114/62/000/008/004/006 E194/E455 Yurkin, V.S., Engineer, Sheynkman, A.G., Engineer, The influence of blade bottom overlap on turbine stage Tokmantsev, N.K., Engineer AUTHORS: PERIODICAL: Energomashinostroyeniye, no.8, 1962, 28-29 The blade bottom overlap in turbines is usually made positive, i.e. the aperture between runner blades extends further TITLE: towards the shaft axis than does the adjoining nozzle aperture. towards the shall axis than does the adjoining nozzie aperture.

This design assumes the presence of pressure equalizing holes in the discs, so that there is no leakage through the axial! the discs, so that phere is no leakage through the axial, the clearance at the blade roots. clearance at the bigge roots. The steam particles from the nozzle tend to spread radially outwards and not inwards; so it £. nozzle tend to spread radially outwards and not inwards; so it a might seem possible to use negative overlaps. Accordingly, the Ural'skiy turbomotornyy zavod (Ural Turbine Works) carried out a conjugate to the conjugate of the 1. vral skiy turoomotornyy zavod (vral Turbine works) carried out a type BD 6-3 type by tests on a full-scale stage of a turbine type by the full scale stage o The initial stage had zero overlap and the overlap was altered by fixing inserts into the radial surface of the nozzle Tests were made with and without pressure-relief holes in ducts. Card 1/2 Card ;



S/096/63/000/001/002/006
An investigation of rotating ... ; E194/E155

irregularities that might lead to vibration. The type of flow in the diaphragm ducts was found to depend on the ratio between the inlet and discharge sections. In the fully-open position, bands of low and high pressure typical of supersonic speeds were At partial openings considerable swirl was caused behind the blades of the second row but the discharge flow was straight. The discharge angle increases as the aperture is reduced. The optically-observed results were confirmed by discharge speed measurements. Losses in the regulating diaphragm are particularly high when it is nearly closed because of vortex formation and pressure jumps in the duct. The direction of closing influences the velocity distribution and flow angles. that the 'separated' construction could be as efficient as the 'unseparated' in the fully-opened position; in the partiallyopened position the discharge velocity distribution was more uniform but the losses were greater because the ducts are longer and flow conditions over the curved surfaces are poor. Therefore, the question of using a 'separated' diaphragm is mainly a question of diaphragm width. The main object should be to obtain minimum Card 2/4

An investigation of rotating ...

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losses and straight flow throughout the discharge section. further discussion of the experimental results it is concluded After that in designing these diaphragms: the number of throttle ducts should be the same as the number of blade channels; 'unseparated' construction is preferred; a sloping inlet is preferred with an angle of 60-70°; but if inlet is axial, the nozzle duct length at the centre line should be greater than with the sloping inlet, to reduce the relative curvature of the concave surface; and, finally, the inlet edges of the first ring blades should be rounded instead of the more usual conical shape. Recommendations are also made about blading types. A low-pressure regulating diaphragm on these lines is as efficient as one with the usual nozzle arrangement in the fully-opened position. Tests on regulating gear for turbines of 50 - 100 MW confirmed figures obtained by the simple design formula recommended. It is shown that total losses in the flow-regulating equipment depend both on the degree of opening and on the operating conditions, and characteristic curves are constructed to illustrate this point. There are 8 figures. Card 3/4

card 5/4

Card 4/4

An investigation of rotating ... S/096/63/000/001/002/006 E194/E155

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

Ural'skiy turbomotornyy zavod (Ural Turbine Works)

SHEYNKMAN, A.G., inzh.; TOKMANTSEV, N.K., inzh.

Efficient design of steam turbine nozzle boxes.
Fnergomashinostroenie 9 no.3:40-41 Mr'63. (MIRA 17:5)

DEYCH, M.Ye.; SHEYNKMAN, A.G.

New nozzle blade profiles regulating the rotational diaphragms of bleed turbines. Trudy MEI no.47:37-48 '63. (MIRA 17:1)

SHEYNKMAN, A.G., inzh.

Effect of the upper overlap and open gaps on the efficiency of a

Effect of the upper overlap and open gaps on the state 10 no.6:34-bandaged banded turbine stage. Energomashinostroenie 10 no.6:34-36 Je '64.

DEYCH, M. Ye., doktor tekhn. nauk, prof.; SHEYNKMAN, A.G., kand. tekhn. nauk; FILIPPOV, G.A., kand. tekhn. nauk; BARANOV, V.A., kand. tekhn. nauk; KIRSANOVA, A.A., inzh.; MIKHAYLOV, B.A., inzh.

Experimental study of a model take-off regulatory stage with a rotary diaphragm. Energomashinostroenie. 11 no.2:14-17 F:65.

(MIRA 18:4)

ACC NR: AP7001449

(N)

SOURCE CODE: UR/0413/66/000/021/0184/0184

INVENTORS: Deych, M. Ye.; Sheynkman, A. G.

ORG: none

TITLE: A regulating diaphragm of a turbine engine. Class 46, No. 188222

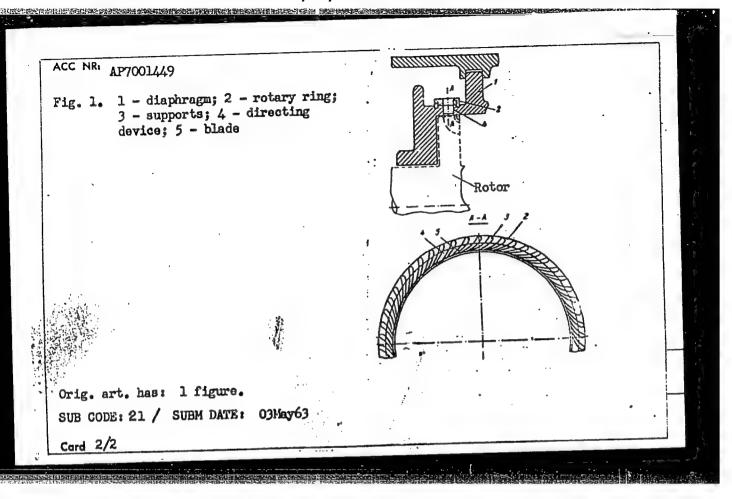
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 184

TOPIC TAGS: turbine ongine, engine component, rotating engine

ABSTRACT: This Author Certificate presents a regulating diaphragm of a turbine engine. The diaphragm contains a rotary ring with supports and a directing device with blades which form elongations of the supports. To be used in radial and radial—axial type turbines, the supports and the blades are placed on a cylindrical surface (see Fig. 1). In an alternate design, one or both walls at the intake portion of the ducts in the rotary ring and in the directing device are placed at a desired angle to the tangent plane of the cylindrical surface at the junction of the rotary ring and the directing device.

Card 1/2

UDC: 62-226-546.5



KIESHCHEV, G.V.; SHEYNKMAN, A.I.

Dependence of the reflection coefficient of powders on the particle size. Trudy Chel.gos. ped. inst. 2:185-190 64.

Anomalous scattering of X-rays by tiny crystals of the precipitating β -phase at the late stages of breakdown of a supersaturated solid solution of zinc in aluminum (AIZn). Ibid.:191-194 (MIRA 18:9)

KIESHGHEV, G.V., SHEYNKMAN, A.I.; BOBYRENKO, Yu.Ya.; Prinimal uchastiye TITOV, G.K.

Effect of metal oxides on the polymorphic transformation of anatase to rutile. Lakokras.mat. i ikh prim. no.2:21-23 '64. (MIRA 17:4)

Alexandrevi, i.v.; Thorin, V.A.; SHEYNEMAN, A.I.; SHERERETIVE, G.P.

Cie.tral reflection power of dyeing pigments on the basis of nickel titanate. Trudy Chel. gos. pcd. inst. 2:165-173 (64. (MTRA 18:9))

L 10870-65 ESD(t)/ESD(c)/ESD(gs)/BSD/AS(mp)-2 ACCESSION NR: AR4046539 S/0058/64/000/008/D056/D056

SOURCE: Ref. zh. Fizika, Abs. 8D425

В

AUTHORS: Kleshchev, G. V.; Sheynkman, A. I.

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TITLE: Dependence of the reflection coefficient of a powder on the particle dimension

CITED SOURCE: Tr. Chelyab. gos. ped. in-t. v. 2, 1964, 185-190

TOPIC TAGS: powder, reflection coefficient, light reflection

TRANSLATION: A formula is obtained for the dependence of the reflectivity R of a powder on the dimension of the powder particles, and on their absorbing ability. The calculation was made for the limiting case of an infinitely thick layer of powder. The experimental values of R determined for powdered colored glass are in good agreement with the values of R calculated theoretically. V. K.

Card 1/2

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ACCE	70-65 SSION NR	: AR4046539	
			SUB CODE: OP ENCL: 00
Card	2/2		

SHEYNKMAN, A.K.; KAZARINOVA, N.F.; BABIN, Ye.P.

N-acylpyridinium salts as pyridilic agents in Fridel-Crafts reactions. Zhur.VKHO 7 no.1:112-113 162. (MIRA 15:3)

1. Donetskoye otdeleniye instituta organicheskoy khimii AN SSSR. (Paridinium compounds) (Friedel-Crafts reactions)

KOLOMOYTSEV, L.R.; KAZARINGVA, N.F.; GEONYA, N.I.; SHEYNKMAN, A.K.

Antibacterial action of some N-substituted pyridine derivatives.
Report No.1. Mikrobiol.zhur. 24 no.3:23-28 '62. (MIRA 15:8)

1. Donetskoye otdeleniye Instituta organicheskoy khimii AN UkrSSR. (PYRIDINE) (BACTERIA, EFFECT OF DRUGS ON)

SHEYNKMAN, A. K.; ROZENBERG, B. A.; ARTAMONOV, A. A.

Vinylpyridines and the polymers derived from them. Khim. prom. no.3:181-187 Mr 163. (MIRA 16:4)

1. Donetskoye otdeleniye Instituta organicheskoy khimii Akademii nauk UkrSSR.

(Pyridine) (Polymers)

KOLOMOYTSEV, L.R.; GEONYA, N.I. (Heonia, N.H.); SHEYNKMAN, A.K.

Antibacterial effect of some N-substituted pyridine derivatives. Report No. 2. Mikrobiol. zhur. 25 no. 5:58-67 '63. (MIRA 16:12)

1. Meditsinskiv institut i Donetskiy filial Instituta organicheskoy khimii AN Uki SSR; Donetsk.

KAZARINOVA, N.F.; BABIN, Ye.F.; SOLOMKO, K.A.; KOTELENETS, M.I.;
ARTAMONOV, A.A.; SHEYNKMAN, A.K.

Preparation of 4-ethylpyridine. Zhur.prikl.khim. 36 no.3:
(649-654 My 163.

(Pyridine)

(Pyridine)

SHEYNKMAN, A.K.; RUDENKO, N.Z.; KAZARINOVA, N.F.; LYSENKO, V.B.

Structure of quaternary salts of 4-(p-dimethylaminophenyl)- and 4-(p-dimethylaminostyryl)pyridines. Zhur.ob.khim. 33 no.6:1964-1969 Je '63. (MIRA 16:7)

1. Donetskoye otdeleniye Instituta organicheskoy khimii AN UkrSSR i Donetskiy gosudarstvennyy meditsinskiy institut.

(Pyridinium compounds)

KOST, A.N.; SHEYNKMAN, A.K.

Activation of methyl groups linked to hetetocycles. Zhur.ob.khim.
33 no.6:2077-2078 Je '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova i Donetskoye otdeleniye Instituta organicheskoy khimii Ukrainskoy AN. (Methyl group) (Heterocyclic compounds)

ARTAMONOV, A.A., ROZENBERG, B.A., SHEYNKMAN, A.K.

Pyridylethylation reaction. Reakts. i metod. issl. org. soed.
[14:173-298 '64. (MIRA 18:3)